TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	13-08-2021
Period of Soaking	24 hours	Date of Testing	14-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	681	673	663	
B	Weight of oven - dry sample gm.	672	665	655	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1695	1690	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.575	2.578	2.589	2.580
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.339	1.203	1.221	1.255

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

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TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	13-08-2021	
			Date of Testing	13-08-2021	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	274	274	2.74	97.26	95 - 100
10.00 mm	4725	4999	49.99	50.01	25 - 55
4.75 mm	4318	9317	93.17	6.83	0 - 10
Pan	683	10000			

Remarks : Satisfactory / Not Satisfactory

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Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Plant/Site	Date of Sampling	13-08-2021
		Date of Testing	13-08-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	524	524	5.24	94.76	90-100
10.0	3685	4209	42.09	57.91	40-85
4.75	5246	9455	94.55	5.45	0-10
Pan	545	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant/Site		Date of Sampling	13-08-2021	
			Date of Testing	13-08-2021	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	524	524	5.24	94.76	90-100
10.0	3685	4209	42.09	57.91	40-85
4.75	5246	9455	94.55	5.45	0-10
Pan	545	10000			

Remarks : Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	18-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	107 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	479 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	Site	Date of Sampling	18-06-2021
Period of Soaking	24 hours	Date of Testing	19-06-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of stumfied surface dry sample gm.		657	643	661	
B	Weight of oven Dry sample gm.		649	635	653	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1685	1680	1690	
E	Bulk specific gravity	B / (C+A-D)	2.628	2.668	2.654	2.650
G	Absorption (%)	(A-B)*100 / B	1.233	1.260	1.225	1.239

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	Site	Date of Sampling	18-08-2021
		Date of Testing	18-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	230	230	7.67	92.33	90 - 100
2.36 mm	250	480	16.00	84.00	75 - 100
1.18 mm	500	980	32.67	67.33	55 - 90
0.600 mm	550	1530	51.00	49.00	35 -59
0.300 mm	820	2350	78.33	21.67	8-30
0.150 mm	400	2750	91.67	8.33	0 - 10
Pan	250	3000			-

Asst. Executive Engineer
Project Division-01
BBMP Dr. Yelahanka

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	Site	Date of Sampling	18-08-2021
		Date of Testing	18-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	75	75	2.50	97.50	95-100
20.00mm	1370	1445	48.17	51.83	30-70
10.00mm	970	2415	80.50	19.50	10-35
4.75mm	470	2885	96.17	3.83	0-5
Pan	115	3000	100.00	0.00	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Plant/Site	Date of Sampling	20-08-2021
		Date of Testing	20-08-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	495	495	4.95	95.05	90-100
10.0	3652	4147	41.47	58.53	40-85
4.75	5236	9383	93.83	6.17	0-10
Pan	617	10000			

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete	
Sample Location	At Plant	Date of Sampling	20-08-2021	
		Date of Testing	20-08-2021	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	274	274	2.74	97.26	95 - 100
10.00 mm	4725	4999	49.99	50.01	25 - 55
4.75 mm	4318	9317	93.17	6.83	0 - 10
Pan	683	10000			

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TEJUS

Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	30-08-2021
Sample Supplied By	Client

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	121 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	464 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	20-08-2021
		Date of Testing	20-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	325	539	17.97	82.03	75 - 100
1.18 mm	450	989	32.97	67.03	55 - 90
0.600 mm	485	1474	49.13	50.87	35 -59
0.300 mm	730	2204	73.47	26.53	8-30
0.150 mm	624	2828	94.27	5.73	0 - 10
Pan	172	3000			-

Assistant Engineer
Project Division
Jeevahalli Division
BBMP, Bangalore-92

Remarks : Satisfactory / Not Satisfactory

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TEJUS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	20-08-2021
Period of Soaking	24 hours	Date of Testing	21-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of surated surface dry sample gm.	661	651	641	
B	Weight of oven - dry sample gm.	653	643	633	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1690	1685	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.654	2.668	2.740	2.688
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.225	1.244	1.264	1.244

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Relevance IS code:	IS:516-1959
Sample Location	Site

S.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-08-2021	21-08-2021	7 days	8.124	22500	310	13.78	13.76
2	14-08-2021	21-08-2021	7 days	8.135	22500	308	13.69	
3	14-08-2021	21-08-2021	7 days	8.139	22500	311	13.82	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Site

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-08-2021	28-08-2021	7 days	8.124	22500	320	14.22	13.82
2	21-08-2021	28-08-2021	7 days	8.135	22500	305	13.56	
3	21-08-2021	28-08-2021	7 days	8.139	22500	308	13.69	

Asst. Executive Engineer
Project Division - 92
Yelahanka Zone
BBMP Bangalore

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Site

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-08-2021	11-09-2021	28days	8.137	22500	498	22.13	22.12
2	14-08-2021	11-09-2021	28days	8.143	22500	495	22.00	
3	14-08-2021	11-09-2021	28days	8.136	22500	500	22.22	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Site

S.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-08-2021	18-09-2021	28days	8.135	22500	492	21.87	21.76
2	21-08-2021	18-09-2021	28days	8.140	22500	486	21.60	
3	21-08-2021	18-09-2021	28days	8.133	22500	491	21.82	

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

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PRECAST SLAB (CORE) TEST REPORT

To	:	Archer Bangalore Vicharagara Public
Name of Work	:	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No:08, Kodigehalli
Contractor	:	M/s KRISL
No. of Sample Tested	:	3
Date of Testing	:	25-08-2021
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20, 100mm thick

S. No.	Date of Casting	Date of Test	Core ID (No)	Density of Core (kg / m³)	H / D	Correction Factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	11/8/21	90.00	0.458	2580.43	1.80	0.980	39.40	20.07	21.67	30.80	36.01
2	11/8/21	90.00	0.461	2608.73	1.80	0.980	39.63	20.19	21.81	31.04	36.17
3	11/8/21	90.00	0.470	2659.66	1.80	0.980	39.70	20.22	21.84	31.06	36.20

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s KRIDL
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No. of Sample Tested	:	3
Date of Testing	:	06-09-2021
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.384	2300.82	1.70	0.960	29.66	15.11	16.31	15.66	19.58
2	50.00	85.00	0.390	2336.77	1.70	0.960	29.54	15.04	16.25	15.60	19.50
3	50.00	85.00	0.374	2240.90	1.70	0.960	29.71	15.13	16.34	15.69	19.61

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.

Consultant's Representative

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